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<223> 8-58-301.mis complement

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項目	単位	数値
1. 総人口	人	1,234,567
2. 男性人口	人	612,345
3. 女性人口	人	622,222
4. 出生人口	人	12,345
5. 死亡人口	人	8,765
6. 自然増減	人	3,580
7. 移住人口	人	5,678
8. 転出人口	人	4,567
9. 人口移動	人	1,111
10. 人口密度	人/平方キロメートル	123.45
11. 平均年齢	歳	34.56
12. 出生率	‰	1.23
13. 死亡率	‰	0.87
14. 自然増減率	‰	0.35
15. 移住率	‰	0.56
16. 転出率	‰	0.45
17. 人口移動率	‰	0.11
18. 人口密度率	‰	12.34
19. 平均年齢率	‰	3.45
20. 出生率率	‰	1.23
21. 死亡率率	‰	0.87
22. 自然増減率率	‰	0.35
23. 移住率率	‰	0.56
24. 転出率率	‰	0.45
25. 人口移動率率	‰	0.11
26. 人口密度率率	‰	12.34
27. 平均年齢率率	‰	3.45
28. 出生率率率	‰	1.23
29. 死亡率率率	‰	0.87
30. 自然増減率率率	‰	0.35
31. 移住率率率	‰	0.56
32. 転出率率率	‰	0.45
33. 人口移動率率率	‰	0.11
34. 人口密度率率率	‰	12.34
35. 平均年齢率率率	‰	3.45
36. 出生率率率率	‰	1.23
37. 死亡率率率率	‰	0.87
38. 自然増減率率率率	‰	0.35
39. 移住率率率率	‰	0.56
40. 転出率率率率	‰	0.45
41. 人口移動率率率率	‰	0.11
42. 人口密度率率率率	‰	12.34
43. 平均年齢率率率率	‰	3.45
44. 出生率率率率率	‰	1.23
45. 死亡率率率率率	‰	0.87
46. 自然増減率率率率率	‰	0.35
47. 移住率率率率率	‰	0.56
48. 転出率率率率率	‰	0.45
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Phe Cys Asn Ser Tyr Thr Leu Trp Glu Leu Phe Ser Gly Leu Ser Ser
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<212> PRT

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Arg	Ser	Arg	Ala	Leu	Phe	Leu	Gly	Asn	Ser	Ala	Lys	Pro	Val	Trp	Arg		
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Leu	Glu	Thr	Cys	Tyr	Pro	Gln	Gly	Ala	Ser	Ser	Gly	Gln	Cys	Phe	Thr		
			180				185						190				
Val	Glu	Ser	Ala	Asp	Ala	Val	Cys	Ala	Arg	Asn	Trp	Ser	Arg	Gly	Ala		
	195						200					205					
Ala	Ala	Gly	Glu	Glu	Gln	Ser	Ser	Arg	Gly	Ser	Arg	Pro	Thr	Pro	Leu		
	210					215					220						
Trp	Asn	Leu	Ser	Asp	Phe	Tyr	Leu	Ser	Phe	Cys	Asn	Ser	Tyr	Thr	Leu		
225					230					235					240		

[illegible]

Trp Glu Leu Phe Ser Gly Leu Ser Ser Pro Ser Thr Leu Asn Cys Ser
 245 250 255
 Leu Asp Val Val Leu Thr Glu Gly Gly Glu Met Thr Thr Cys Arg Gln
 260 265 270
 Cys Ile Glu Ala Tyr Gln Asp Tyr Asp His His Ala Gln Glu Lys Tyr
 275 280 285
 Glu Glu Phe Glu Ser Val Leu His Lys Tyr Leu Gln Ser Asp Glu Tyr
 290 295 300
 Ser Val Lys Ser Cys Pro Glu Asp Cys Lys Ile Val Tyr Lys Ala Trp
 305 310 315 320
 Leu Cys Ser Gln Tyr Phe Glu Val Thr Gln Phe Asn Cys Arg Lys Thr
 325 330 335
 Ile Pro Cys Lys Gln Tyr Cys Leu Glu Val Gln Thr Arg Cys Pro Phe
 340 345 350
 Ile Leu Pro Asp Asn Asp Glu Val Ile Tyr Gly Gly Leu Ser Ser Phe
 355 360 365
 Ile Cys Thr Gly Leu Tyr Glu Thr Phe Leu Thr Asn Asp Glu Pro Glu
 370 375 380
 Cys Cys Asp Ile Arg Ser Glu Glu Gln Thr Ala Pro Arg Pro Lys Gly
 385 390 395 400
 Thr Val Asp Arg Arg Asp Ser Cys Pro Arg Thr Ser Leu Thr Val Ser
 405 410 415
 Ser Ala Thr Arg Leu Cys Pro Gly Arg Leu Lys Leu Cys Val Leu Val
 420 425 430
 Leu Ile Leu Leu His Thr Val Leu Thr Ala Ser Ala Ala Gln Asn Ser
 435 440 445
 Thr Gly Leu Gly Leu Gly Gly Leu Pro Thr Leu Glu Asp Asn Ser Thr
 450 455 460
 Arg Glu Asp
 465

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23

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<220>
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26

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09207506-100001

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<210> 11
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<220>
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<400> 11
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<210> 12
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<400> 12
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<210> 13
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<220>
<223> oligonucleotide g713RACE5R-49

<400> 13
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<210> 14
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<220>
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<400> 14
ggctgtgcgt tcccaaaata 20

<210> 15
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<220>
<223> oligonucleotide g713RACE3N

<400> 15
aaaaatgttt cggtccagtc tgtaaga 28

<210> 16
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09807506-0980604

ctgatcactt gtggttctgc gccg

24

<210> 22

<211> 22

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<220>

<223> oligonucleotide g34301.RP

<400> 22

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22

<210> 23

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<223> oligonucleotide SG1LR1102

<400> 23

aaaatactgg gaacagagcc agg

23

<210> 24

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<212> DNA

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<223> oligonucleotide SG1LF790

<400> 24

gcacttagag cgcggggt

18

<210> 25

<211> 15

<212> DNA

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<220>

<223> oligonucleotide SG1LF834

<400> 25

gccggaggca gccca

15

<210> 26

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> oligonucleotide moCTGR1511

<400> 26

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17

<210> 27

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0907506-00001

<220>
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<210> 30
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<212> DNA
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<223> oligonucleotide moCTG5RACEn
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<220>  
<221> misc_feature  
<222> 14  
<223> n=a, g, c or t
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[illegible][illegible]

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gatttaaaga	aaatttagta	aaatattcaa	ttgtataaaag	atacacaaaa	tattgggttat	720
ctacatgata	gcaaagatga	attaagggat	ggggataaaa	ctcttctcaa	taacacccaaa	780
attaaaataa	aacataattc	atatatttag	aaatatcatt	acagaaatat	gttgaacttg	840
tattaacagc	ctctcctcaa	aggtagcatg	gagaatcatg	caaacttaat	ttggagatac	900
aaaaaaaaatt	gagaatgtgt	agtgttggtc	tttaattcta	actgtaatgg	ctgaataa	960
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<210> 32

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 298

<223> 99-15663-298 : polymorphic base C or T

<220>

<221> misc_binding

<222> 275..321

<223> 99-15663-298.probe

<220>

<221> primer_bind

<222> 279..297

<223> 99-15663-298.mis

<220>

<221> primer_bind

<222> 299..317

<223> 99-15663-298.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15663.pu

<220>

<221> primer_bind

<222> 430..450

<223> 99-15663.rp complement

<400> 32

tcccaccttc	ttctaaacgt	gttgcttcaa	tacgttgata	ggtgaggaca	cttaaaaatt	60
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ttagcctctt	tctaaaattt	attttttgat	actgaaggga	gaaataggga	gttattaatc	180
aacaggcatt	aatttttagtc	aagcaaaaata	aataagctgt	agcgatctgc	tctgtaacat	240
tgtacctaca	gccacaatt	atatgttgtc	cacttaaaaa	tgtgtagat	ctcatagyaa	300
ctcttcttac	cacaataaag	taaaaattct	gaaacaataa	gtgaatacct	aaataatata	360
aacaaatata	atattgtagt	tttgggcact	taataaatga	cagcctcatt	tctcaattag	420
agatcatcac	aagttagaca	gatgacgatg				450

<210> 33

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 398

<223> 99-15665-398 : polymorphic base A or G

<220>

<221> misc_binding

<222> 375..421

<223> 99-15665-398.probe

<220>

<221> primer_bind

<222> 379..397

<223> 99-15665-398.mis

<220>

<221> primer_bind

<222> 399..417

<223> 99-15665-398.mis complement

<220>

<221> primer_bind

<222> 1..20

<223> 99-15665.pu

<220>

<221> primer_bind

<222> 458..476

<223> 99-15665.rp complement

<400> 33

cgtaaagtgtg	aaaagcatag	cctcttcttg	gaatgttaag	tataaatatc	tgaaatactg	60
ggcttgatat	gtcaacagga	gattgatgga	taaaaataga	attttatata	aaaaacaact	120
ggacatatta	gattgttaac	ttggaagaaa	gaccatattc	aaagaagaaa	acatagtgac	180
taatttcaaa	catttaaagt	cttcctgtg	gaaacaaagg	aatatctttg	ttctaacact	240
tcaagaaca	gggttaaaaa	atagactcac	cacagagtaa	atgcacaatt	gacaatcgtg	300
aatgaattaa	aaaccaaaca	aatatttttg	tcagctttct	atctatgaaa	ctaagaaaca	360
ggcttcctac	taaggtaatg	aatgtaattc	acagagarca	ttcacgtata	agtttcattc	420
atgtttcaaa	tttcattgat	ttgatcaatg	ggttattcta	ataccctccc	ttattt	476

<210> 34

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 166

<223> 99-15672-166 : polymorphic base C or T

<220>

<221> misc_binding

<222> 143..189

<223> 99-15672-166.probe

<220>

<221> primer_bind

<222> 147..165

<223> 99-15672-166.mis

<220>

<221> primer_bind

<222> 167..185

<223> 99-15672-166.mis complement

09807505-080601

<220>
<221> primer_bind
<222> 1..18
<223> 99-15672.pu

<220>
<221> primer_bind
<222> 533..551
<223> 99-15672.rp complement

<400> 34
ccaataccat aactcctcta taggacatgg aagagtatta tatatgacaa atgattgcta 60
tgattattat tatcagtgtt attattatcc taatcctaag taatccaata aaagaaaaat 120
acatctgtgc ctgtgcgtat gtgcacgtgt gtgcagtcaa atacaygttg agtaaaggta 180
aagtctagct gtatttaatc aacctacctg aatcctcagg aaaaaattct aaacctagtt 240
taaaacatgt aaactctaag ctctctcctt atagtcagtt agtagcagca catcttaaaa 300
tctgggtgtga atattctctt agttctacat gagtctaact aaacagagga ttattcttag 360
gtgttttgaaa gagacatatg tgacactgct gttttgagaa caatttaagt gttgtcttgt 420
catgtacaga agttctcata ttactttaca taaatggttg cataattgtt ttatagtaaa 480
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aaaaggg 547

<210> 35
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<212> DNA
<213> Homo sapiens

<220>
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<222> 185
<223> 99-15664-185 : polymorphic base G or T

<220>
<221> misc_binding
<222> 162..208
<223> 99-15664-185.probe

<220>
<221> primer_bind
<222> 166..184
<223> 99-15664-185.mis

<220>
<221> primer_bind
<222> 186..204
<223> 99-15664-185.mis complement

<220>
<221> primer_bind
<222> 1..19
<223> 99-15664.pu

<220>
<221> primer_bind
<222> 483..502
<223> 99-15664.rp complement

<220>
<221> misc_feature
<222> 54

09607506-080601

<223> n=a, g, c or t

<400> 35

gtttaccatt	agcactgtca	tatttgtgtg	acttgtcatt	ctctacagcg	gagnacgggc	60
tggcacgggg	cctgatgctg	acttgcacaa	gggaagcctc	ctgtctctga	cttccccagg	120
ataattcctg	gggaaagtgt	gctccctagt	gttaagagcg	gtttaatggc	tggaggggt	180
cagckggctg	accaggcaga	gaaggagggt	gaatcacctc	tcagcactct	ccacttagac	240
tttgtgtggt	cgtcgggtgg	tcaaaccctc	taactagtgt	tattgcagat	ttggcattcc	300
agtgcacaaa	aaagacagaa	acacaatgtt	cacatgcttt	ccagagatca	cctggatatc	360
agatcatttg	atcttcaagt	aagtcgaaac	cttgggtggaa	atcattaact	atcctgttta	420
tgacacaaaa	ataaaatccc	aaattttctc	tcttcatttc	ttacctgctt	taaaattgta	480
tccaaagcgt	graagtaaaa	ga				502

<210> 36

<211> 455

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 205

<223> 99-5919-215 : polymorphic base A or G

<220>

<221> misc_binding

<222> 182..228

<223> 99-5919-215.probe

<220>

<221> primer_bind

<222> 186..204

<223> 99-5919-215.mis

<220>

<221> primer_bind

<222> 206..224

<223> 99-5919-215.mis complement

<220>

<221> primer_bind

<222> 1..19

<223> 99-5919.pu

<220>

<221> primer_bind

<222> 435..455

<223> 99-5919.rp complement

<400> 36

ctacagcaat	gcagatttca	attctgccat	tgaattccca	gacatattcg	tcattcccat	60
tttcatcccc	caccaccctg	ccattttctt	cgtgttaact	tgttttctctg	actcacagaa	120
atcacctttt	cctgtataca	tttttaggat	gtcagacttt	attctaata	tttctcctag	180
ttgcccccca	aaattgtatt	ctacrgtgtg	attttaaagc	tgaattttca	agatgatatt	240
tcatatctat	attttcacaa	gcttttcttc	tatgaatgtt	attgtcagct	gtcagggtgt	300
gagatggtag	ttgatactac	attctttcca	agctgttgcc	tgaatcggtt	taagacaaaag	360
tcattactag	gctgtaaaact	gttgctctgc	aaaattgagc	agcacgtatt	taaccactca	420
tacttccttag	ctctccaaca	ctttgagtc	ataga			455

<210> 37

<211> 450

<212> DNA

09807506-090604

<213> Homo sapiens

<220>

<221> allele

<222> 157

<223> 99-5862-167 : polymorphic base C or T

<220>

<221> misc_binding

<222> 134..180

<223> 99-5862-167.probe

<220>

<221> primer_bind

<222> 138..156

<223> 99-5862-167.mis

<220>

<221> primer_bind

<222> 158..176

<223> 99-5862-167.mis complement

<220>

<221> primer_bind

<222> 1..20

<223> 99-5862.pu

<220>

<221> primer_bind

<222> 430..450

<223> 99-5862.rp complement

<400> 37

aatcaaggta	gagatgtatg	agaaatagcc	ggttaaagaa	acagcattac	tttcagacta	60
tcttttattt	gaaatacacg	tggggaaacc	agaagggtgaa	accccttagg	agatggatat	120
aggatactaa	aatctgagtt	agaaaaattt	gagcatyagc	accttacgtg	tcatgctaag	180
atagtgaatg	agactgcaca	ggaattgcat	gcagtttaac	ggaaaaagaa	gtcgaaagat	240
aaattcctag	aacactaaca	ccgagttatg	ggaggagaaa	tatcctgcac	aggtcactct	300
gggagacatg	tcaattgttt	agccaatatc	cattttaactc	atctttcttc	ctaatgaaaa	360
ccgaatttgg	agaagcaggt	agtgccctctg	gctagaaata	tgaaccttcc	cagcttctct	420
catgcactga	actgacaaag	ttcaggtctg				450

<210> 38

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 292

<223> 99-16032-292 : polymorphic base A or C

<220>

<221> misc_binding

<222> 269..315

<223> 99-16032-292.probe

<220>

<221> primer_bind

<222> 273..291

<223> 99-16032-292.mis

09307506 080601

<400> 39

[illegible]

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ctttaatttt	tagatccaga	tatacattgg	gtaaaatcta	cttcataggt	tttcaaarga	120
gcattcttct	gagcaaatct	gaaaactctc	taaactctat	tggtatgtta	ctctttatct	180
ttatatgaat	ttaaattctt	ctagaagtta	gataaaactg	tggtaaagct	acataatact	240
tttgacatat	tttcaagcgt	agacaaactt	caattaattt	gtaagatata	ggaagaaaat	300
ttttccagtt	aaaatgtacc	tcttggtttc	tggagtgtta	gcaaccattc	acacttacag	360
ttcaaacagt	gcaaccttgt	aaaacatata	taacttatga	agagatcgat	atctcttttt	420
ataaagcaaa	caagtaaatt	tttcctcaa	tccatgattt	atttttgtga	agtggg	476

<210> 40

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 133

<223> 99-5897-143 : polymorphic base A or C

<220>

<221> misc_binding

<222> 110..156

<223> 99-5897-143.probe

<220>

<221> primer_bind

<222> 114..132

<223> 99-5897-143.mis

<220>

<221> primer_bind

<222> 134..152

<223> 99-5897-143.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-5897.pu

<220>

<221> primer_bind

<222> 475..492

<223> 99-5897.rp complement

<400> 40

aaaagtgttt	gccagtcctg	tttcttacag	agcacagaac	tcagatgctc	ttataaagat	60
acaggataaa	tcacatcatt	tcctgctcca	tcatcagaat	attattatat	gatttagatc	120
acttttttaa	aamagaacat	ggacttagta	cagaacaaca	gcaaaagcct	ggggaaggag	180
aggagtgcac	catgaggagt	caatggggag	cagaagccag	tccatttgac	tgatttggtt	240
cgtgtgcaaa	ataattgcta	aataattgca	tatatgtgag	actccgggta	ttttcaaaac	300
cagctggcaa	aattgtgtta	ttctctaccc	tctgctggct	ttcacggggt	ctctgttctc	360
tctccttttc	ctccattctc	ctcttaccct	aattcctgac	cactgtaatc	caataatcta	420
agggttttagg	atttggtatga	ctaagggttac	ccatggaatt	gtttggaat	gtagacctgt	480
aatggagagg	ggagaaaa					498

<210> 41

<211> 517

<212> DNA

<213> Homo sapiens

<220>

T090901 090506 090501

<221> allele
<222> 360
<223> 99-13601-360 : polymorphic base A or G

<220>
<221> misc_binding
<222> 337..383
<223> 99-13601-360.probe

<220>
<221> primer_bind
<222> 341..359
<223> 99-13601-360.mis

<220>
<221> primer_bind
<222> 361..379
<223> 99-13601-360.mis complement

<220>
<221> primer_bind
<222> 1..19
<223> 99-13601.pu

<220>
<221> primer_bind
<222> 500..517
<223> 99-13601.rp complement

<400> 41
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tccttcatta atggtgcttg gatacccaat gcaacacacc tacatcaaac tgcatttgta 120
actgttggat tcataatgat tctacctaag atgcaagcat acggcatcat tgtgccttgt 180
tgtatggata tgcttgagaa gtcacatgct gaaatacata tatttttaaatt ttgacagtat 240
ctcctacaat attttcttta tattatagta aggtattaca ttacagttta aaacttatga 300
ctataagcag gtgatattat ctatgaattt catgtgaaat tagcaaaggg acagtctcar 360
atgtttgctg tataaagtgt atttgaagcc tgatagggtt gagaaacact cagctacagt 420
aagtaaaaac agctctctta gtggttgcc tgttgagaag atcttgaaaa caagggtgaa 480
aatacaaaag aaactgtgtg gagtctacaa agatatt 517

<210> 42
<211> 533
<212> DNA
<213> Homo sapiens

<220>
<221> allele
<222> 97
<223> 99-13925-97 : polymorphic base A or G

<220>
<221> misc_binding
<222> 74..120
<223> 99-13925-97.probe

<220>
<221> primer_bind
<222> 78..96
<223> 99-13925-97.mis

<220>

05207506 060601

<221> primer_bind
<222> 98..116
<223> 99-13925-97.mis complement

<220>
<221> primer_bind
<222> 1..20
<223> 99-13925.pu

<220>
<221> primer_bind
<222> 513..533
<223> 99-13925.rp complement

<400> 42
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tacagcagct gaaacctgga aacaactcta atgccrctca acagaggaat ggatggataa 120
agaaactgtg atgcagtgga atacgactca acgaagatga gactaaaaat aattatactg 180
agtaaaagaa tccaaacaaa atagagcaaa cactgtgcc aacctgttat accttactcc 240
agtaaatgca aactaataca caatgaaaaa aattacttat ttgagaactg gggagaggaa 300
ggagagggaa aggggtagat aaagaaaaga ggagagatta aaaggagcat aagaaaacct 360
cagagaataa taggtttgtg gtaaacatta ccgtggtaat gtttttaggg tatattcaca 420
tgtaaaaact tatccaatta tacattttta atatgtacag tttagtgtgt cagttatgcc 480
tctgtaaagt tgatttttaa aaaagtccta ttccaagtym acaatttcat ttg 533

<210> 43
<211> 480
<212> DNA
<213> Homo sapiens

<220>
<221> allele
<222> 201
<223> 99-13929-201 : polymorphic base A or C

<220>
<221> misc_binding
<222> 178..224
<223> 99-13929-201.probe

<220>
<221> primer_bind
<222> 182..200
<223> 99-13929-201.mis

<220>
<221> primer_bind
<222> 202..220
<223> 99-13929-201.mis complement

<220>
<221> primer_bind
<222> 1..19
<223> 99-13929.pu

<220>
<221> primer_bind
<222> 460..480
<223> 99-13929.rp complement

<400> 43

09807506 090601


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gggagaatac taataatgga agcattactt ttatttttttc tataaattcc tctggaaata 60
tgtattttctt atgtcctaag gttattaaca aaaagagaaa ataatttctg atttataatt 120
cacttttctt caaaaaataa taactcagtg tctagtaagg taaagcaaaa aaagttaaaa 180
gaacccataa gtttatttta maatacctac tcagaagcaa aactgacttt ctattaaaaa 240
ttaaaaaaaa aagtttttctt attattgttt tgttttccttg tttttagggtg atgggattgt 300
atttgcaact ctctggtcag taagtgataa aatgccattt ctatgcaccc acctggcctg 360
tgtgactggg agaatctctc tttttattaa atgtgcttca agttttaaca actgactttt 420
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<210> 44

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 108

<223> 99-14021-108 : polymorphic base A or G

<220>

<221> misc_binding

<222> 85..131

<223> 99-14021-108.probe

<220>

<221> primer_bind

<222> 89..107

<223> 99-14021-108.mis

<220>

<221> primer_bind

<222> 109..127

<223> 99-14021-108.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-14021.pu

<220>

<221> primer_bind

<222> 460..477

<223> 99-14021.rp complement

<400> 44

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tttgttggtta atcgccctt ttctgcaaca cttgtgggtt agggaaaata attctaaagc 60
aagagcaaag acagagttgg gagatcacca gtgaggttca attttccrtc acattcactc 120
tgctccacac ctgagataat catgtgctta actgcgaaac ttgcttgaca attacagaac 180
actttctcac ccattactac cttgatcctc acaattctgt ggggtagtag gagcagatgc 240
tgaaattgcc atacgcaaat cagtgaactg aagcttagag acctccagca ggggcagagg 300
gtcagcggaa actatcccag ggttcagcca acaagaaagt atattggaat cagagtatta 360
aaataagaat aataaaacca actaaaattt accgtgcttt ttatttccac tcagtgccaa 420
caattcttaa cagtgtcagt gatggatccc tgtgccccag gggacagact tcttact 477

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<210> 45

<211> 475

<212> DNA

<213> Homo sapiens

<220>

<221> allele

09207506-060604

<222> 314
<223> 99-14359-314 : polymorphic base G or C

<220>
<221> misc_binding
<222> 291..337
<223> 99-14359-314.probe

<220>
<221> primer_bind
<222> 295..313
<223> 99-14359-314.mis

<220>
<221> primer_bind
<222> 315..333
<223> 99-14359-314.mis complement

<220>
<221> primer_bind
<222> 1..18
<223> 99-14359.pu

<220>
<221> primer_bind
<222> 457..475
<223> 99-14359.rp complement

<400> 45
ataaggggaat ggtgtgaggt gggaccagag gaggtgcac tgagaaagtg agagggggcaa 60
gacctcaggg gaagaaggga gggctgcacg gatgtctcag gcagagcagg cagcaccgga 120
aaagggtgggg gacactcctt ttggaccagc atataatttg gttaaagcct ctccctgtttc 180
acctaataata taagcacatt tcaagataaa actactactt tattgtcatc aaatataaaa 240
gtaattttttt attcagggtt ttctaatact catctataaa ggcatttctt tcccacatgg 300
catgtgttac aggstgttta acttaaagca attgtaaaag aaaagcctga agaaataagt 360
ctacaacgat ttacatcgtg tttatttttg tgtcaaaata tatgttaaaa tatacattag 420
ctatactaag ggaatcaaga gaagatcata attgctctta tgacttgga tttag 475

<210> 46
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> allele
<222> 316
<223> 99-14364-415 : polymorphic base C or T

<220>
<221> misc_binding
<222> 293..339
<223> 99-14364-415.probe

<220>
<221> primer_bind
<222> 297..315
<223> 99-14364-415.mis

<220>
<221> primer_bind
<222> 317..335

09807506 0000001

<223> 99-14364-415.mis complement

<220>

<221> primer_bind

<222> 1..19

<223> 99-14364.pu

<220>

<221> primer_bind

<222> 453..473

<223> 99-14364.rp complement

<400> 46

gtgttttaat	tcaaccacgc	tataagatac	gaaatgatag	aattgctcta	gattctctat	60
tggttaaata	aggagatatt	tgtgctattg	ccaataatac	atgctgtacc	tggtataaacc	120
cctttgggca	agttgtgatg	caaataactca	agaaaatagg	ccacatagtt	acaacaggac	180
ttacctaatt	ccccatggtc	atttggtctga	ttcagtcagt	tgctttcaag	cctagggttct	240
tggctcaata	ttattacata	aactagaatt	ttcctattac	tattaatttt	actttgtatt	300
tttctttata	aacttygtac	ttattgcttg	tcaaatttca	gcagaagtac	aactcctgag	360
agaataatgc	tggctcagag	ttttgagatg	ataacccttg	tctatgaaac	tgatgaagtt	420
ggacttaaca	acgaacactc	cccacagaac	tcctgatgct	caaatgtggc	taa	473

<210> 47

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 99

<223> 99-15056-99 : polymorphic base C or T

<220>

<221> misc_binding

<222> 76..122

<223> 99-15056-99.probe

<220>

<221> primer_bind

<222> 80..98

<223> 99-15056-99.mis

<220>

<221> primer_bind

<222> 100..118

<223> 99-15056-99.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15056.pu

<220>

<221> primer_bind

<222> 482..502

<223> 99-15056.rp complement

<400> 47

caggaaactc	acaagaagsc	agatttcctt	cgagcacctc	ctgaataaag	aggcaaaggc	60
cttcttaact	cttacaattt	acaagtggct	atgagtgcyt	ttatagttcc	cataataatt	120
tctccacgta	gacttcctaa	ataataattt	ctcctgtttt	atattctctg	tgcttatgtt	180

T09090-905-090901

tatatcaaac	aagttaccac	ttaatcaa	at	gccgatttgc	attgctcact	atgtaacttt	240
aattttcttt	gcctcttatt	tttggatctt	aattctaaaa	ctagatgatc	ataaattcat		300
ttaggaataa	gcttgtgac	tagccttctt	ttgaaccctt	ttgtgctcct	cacaatattt		360
gtttcgatga	aacagtgagc	aacatttgat	ctatgattgt	taatagaaaa	acaccaatgt		420
ctcaagttat	tgtaaacata	ggcataattg	acctttgggt	ctataaatat	gtttgggtgt		480
ccccaaaata	cgtctccctt	tt					502

<210> 48

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 412

<223> 99-15229-412 : polymorphic base A or G

<220>

<221> misc_binding

<222> 389..435

<223> 99-15229-412.probe

<220>

<221> primer_bind

<222> 393..411

<223> 99-15229-412.mis

<220>

<221> primer_bind

<222> 413..431

<223> 99-15229-412.mis complement

<220>

<221> primer_bind

<222> 1..20

<223> 99-15229.pu

<220>

<221> primer_bind

<222> 476..494

<223> 99-15229.rp complement

<400> 48

ctgtcattga	gaaatgctac	caataatact	tagagaattt	gatacaactc	agtctgaaaa	60
agctaagatt	agcagaacag	agctgtctcc	aaatatttga	agaactattt	tatttaaggg	120
attggaccca	tttttgtatg	tagttccaga	ggagcagatg	gtgaccactg	tccaggcaga	180
tgtgtctcaa	tgtaaggaca	acatctgtaa	tattaataat	tagaatgtat	cctgtaattt	240
tctctctacc	cttggaaacc	agtcgagatc	cagagtcttt	cactgggagg	cttaaagcct	300
agagcagcct	tggtgctaga	ggcggacagg	gataatgaac	taatcttgaa	ccaattcatc	360
catagcaatc	tcaatgcttt	cgttagctct	tataggtatt	taatacggcc	avaggaatga	420
aggtagtctt	gctggtttag	aagccctgcc	taccacaacc	cctacaccac	cccatccctt	480
gcatagtctg	atgt					494

<210> 49

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 291

09807506-080604

<223> 99-15232-291 : polymorphic base G or T

<220>

<221> misc_binding

<222> 268..314

<223> 99-15232-291.probe

<220>

<221> primer_bind

<222> 272..290

<223> 99-15232-291.mis

<220>

<221> primer_bind

<222> 292..310

<223> 99-15232-291.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15232.pu

<220>

<221> primer_bind

<222> 467..485

<223> 99-15232.rp complement

<400> 49

caatagaaca	ggctgctcct	ttataattat	taatcatagt	gtatattaat	tcatcatcac	60
atacgtggct	agaaaaaaat	ttagaacaaa	aagatatgtg	atatgtaaag	gcctacgata	120
attcagactt	ctttgaggag	agctttttatt	ttattgttat	tcttatttta	tctcttgta	180
atataaattg	agagaataaa	cagacaaaca	ttacaaatta	gtgattaatt	gcatttaaag	240
cctagttaaag	actattttaag	actattatgc	ataatacagg	aaaactacct	ktattattta	300
tagtgggtgc	cttctgaagg	atctgaagga	gaatcagttc	tatgcctctc	tcctcattcc	360
caggagggtgc	ctggcattcc	ttggcttgta	gacgcacac	cctaattctc	acctctgcct	420
tcacatggtg	tcccctgtgt	gtgtgttttt	gccccatgtg	tctcctcttt	ttatatggat	480
gccag						485

<210> 50

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 347

<223> 99-15241-347 : polymorphic base A or G

<220>

<221> misc_binding

<222> 324..370

<223> 99-15241-347.probe

<220>

<221> primer_bind

<222> 328..346

<223> 99-15241-347.mis

<220>

<221> primer_bind

<222> 348..366

T 09020 955 20360

<223> 99-15241-347.mis complement

<220>

<221> primer bind

<222> 1..19

<223> 99-15241.pu

<220>

<221> primer bind

$$\langle 222 \rangle \quad 444 \dots 464$$

<223> 99-15241.rp complement

<400> 50

gttatgggtt	gaaaatctct	gagttcttgt	acatacaaaa	atcttactgt	tgtcacagtt	60
gaatcttagt	ttagatgggt	ataggatttt	tattcaaaat	gcttttactc	cataagttta	120
aaaatattgt	tacattttcc	tcaagtatct	gatgttattg	atgagaagtt	taattctaata	180
ttgactcttg	ttcccttgta	ggtactattt	gttttccagt	ttgggaagct	tacattttctt	240
aaaattcaca	acatatataat	tacatactac	acaattcttt	ttaaagtata	caattcaatg	300
cattttagtat	gttttagtac	atataactta	aattatgtat	atcaccaatc	tctttataat	360
atgtgtagaa	tatgtagcat	attcaacaaga	ttgtttcaacc	atccaccactc	tctattttcca	420
gaatcttttc	ctccaaaag	aaaccctgaa	cactatgatg	aata		464

<210> 51

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 196

<223> 99-15244-196 : polymorphic base A or G

<220>

<221> misc binding

<222> 173.⁻219

<223> 99-15244-196.probe

<220>

<221> primer bind

<222> 177..195

<223> 99-15244-196.mis

<220>

<221> primer bind

 $\langle 222 \rangle$ 197..215

<223> 99-15244-196.mis complement

<220>

<221> primer bind

<222> 1..20

<223> 99-15244.pu

<220>

<221> primer bind

<222> 532..550

<223> 99-15244.rp complement

<400> 51

ctgcttctcg	ttatgttttc	ctaattgcc	aaatggtaaa	aatgagaata	atcattgaaa	60
cgagaaagcat	aaagtagcaa	aaatcctttc	cagattaaaa	aacgaagcaa	agcatgtttc	120
ccaagtaata	atactctcat	cttcctccct	aatcctttac	cccactacca	gaagaagagt	180

```

aaaatgtccg gatatrcttg aaggtaaaga tttctccttt taataaaaatt agtcaccttg 240
tacacatcag tagatcttga gaatgaaaag cttttctagt acattcattt caacctataa 300
atgtttgact tttctctgtc attcatttac gacctgtgat cttttcattc cctttcagtt 360
agaatatttt tcaaattttt attgatattt tctatttaac ccatagggtta tttggaaata 420
cattgtttta tttctaatat atttgctttt ttttctactt atttcttttt ttcttaattc 480
cacactgggc caaatatatt ctgcatatga tttaatattt taagttctgt agagactaac 540
cttgtgcctt                                     550

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<210> 52

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 404

<223> 99-15252-404 : polymorphic base C or T

<220>

<221> misc_binding

<222> 381..427

<223> 99-15252-404.probe

<220>

<221> primer_bind

<222> 385..403

<223> 99-15252-404.mis

<220>

<221> primer_bind

<222> 405..423

<223> 99-15252-404.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15252.pu

<220>

<221> primer_bind

<222> 433..452

<223> 99-15252.rp complement

<400> 52

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atggggggcat atagcaaccc tttagaaaca aaactacaaa aggtaagctt gtcttcttgc 60
atttcctttc tcttactaca tttaacatgg gaggttttct atgtctcaca ttcaaataatt 120
ctcactcggg ctgctaatt tttccctgat tttccatcac tctttatgaa ggcttgctac 180
tttagaatac acattttctt aacagaagat aataatcaga agatgtctcc caaatataag 240
tccaaatctt tcctatcatg ctgtgttctt tggctctttt gactttattt gaagtcagcc 300
ttgaagggga tagagatagg ctgtatgaag tccacgctga gaagttttgc cctgccctac 360
ttgtcctgta atatttcatg gatagcccag tgggtgattaa accygtgtgt acaggaataa 420
ccatgagaat ttgttaaaaa tataggctct gg 452

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<210> 53

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 382

T030301-99520260

<223> 99-15253-382 : polymorphic base C or T

<220>

<221> misc_binding

<222> 359..405

<223> 99-15253-382.probe

<220>

<221> primer_bind

<222> 363..381

<223> 99-15253-382.mis

<220>

<221> primer_bind

<222> 383..401

<223> 99-15253-382.mis complement

<220>

<221> primer_bind

<222> 1..19

<223> 99-15253.pu

<220>

<221> primer_bind

<222> 459..477

<223> 99-15253.rp complement

<400> 53

aaaatcaatt	ccccaacact	cattttgtac	gctaattttg	taagatcctg	aaaagtttca	60
ctatttttatg	gtttcatgtg	ttacagatga	aaaaaaaaact	agaattcaaa	ttttctgagt	120
tttttttttac	aatattttat	gattacaaag	ttagaagact	agaataaaaa	tggcctaatt	180
tccataatgt	gagtggtaaa	tgacagagcac	tggcctaaag	aaaatatttc	aaaaaattag	240
tcatcttttc	cttaattttt	ttccaaccta	tgatctggtg	aatgagcatt	ttgcatatat	300
aaataaataa	attactttgt	aaataatctt	gactggtttc	tggtgaccac	agtaaccac	360
tgacagcac	agcctgtaat	tyctatgaac	ctagggaaat	gtatttaagt	ttattttttg	420
attacacagg	tcctcattgt	gtaactaaac	attgcataga	atatgccagt	gatgatg	477

<210> 54

<211> 456

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 392

<223> 99-15256-392 : polymorphic base C or T

<220>

<221> misc_binding

<222> 369..415

<223> 99-15256-392.probe

<220>

<221> primer_bind

<222> 373..391

<223> 99-15256-392.mis

<220>

<221> primer_bind

<222> 393..411

<223> 99-15256-392.mis complement

0907506-030601

<220>
 <221> primer_bind
 <222> 1..18
 <223> 99-15256.pu

<220>
 <221> primer_bind
 <222> 439..456
 <223> 99-15256.rp complement

<400> 54
 cctctctatg atgcttccta ttaagcaatt ggggaaatgt aataaacaag ggttggtgag 60
 catcttcctt agtgagatgt ttttggaaga attggataat tgagtgaata atagtgagaa 120
 actcctgtgt ctgatgttgc tccatgttgg aatgctttta tgttctcaga gaatgagtca 180
 ctgagagcca attgtgatga tacacaatgg ttttaccag gttggatatg gtcctctgta 240
 ctggtaccct ttaagtcagt ggcactaatc agtcagtcatt tgcattgctt tgtgttggtc 300
 catcatatgg tatgccctct tagagaacat cctgattagt ccttagacat cttttcaatt 360
 tgaacactgg ggctcctcat tcgggtaaaa aytatggaca gtcagtgaat ctggtgcaat 420
 ggccccctcat agcagattgg atctcaatgc actttg 456

<210> 55
 <211> 501
 <212> DNA
 <213> Homo sapiens

<220>
 <221> allele
 <222> 200
 <223> 99-15261-202 : polymorphic base A or G

<220>
 <221> misc_binding
 <222> 177..223
 <223> 99-15261-202.probe

<220>
 <221> primer_bind
 <222> 181..199
 <223> 99-15261-202.mis

<220>
 <221> primer_bind
 <222> 201..219
 <223> 99-15261-202.mis complement

<220>
 <221> primer_bind
 <222> 1..19
 <223> 99-15261.pu

<220>
 <221> primer_bind
 <222> 481..501
 <223> 99-15261.rp complement

<400> 55
 cttctaattcc tttgtttcca cttattttat ttcattcttc attttatccc ttttttctaa 60
 attccatttt attatactta aggtgctttt aatatgggta tcatactcct gatagtgtta 120
 tttctttctt agtcttctta tataagcgct atacgttcac attccatctc ctttggttat 180
 ctttcatttt cttcacgar cctctttgct ctcttttttt atagctggtt cactcaaaat 240

09207505-080604

```

gtcttactttt gccatttttg aaattttattt tcattctttt atgtactgaa taaaatttaa 300
aaatacttta tcatgggtggg aggtaccogt gatgtccaaa taagtgttta tattaattgt 360
tggtgtttttt ttgtttgtgt gttttttgaa aggttaagaa aatctcattc agaaagtaag 420
ttgtttaaaa attctggacc aaattttacca cacatcaagc agatacttac caagttgttt 480
ggtagacatt agcagtattt a 501

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<210> 56
<211> 541
<212> DNA
<213> Homo sapiens

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```

<220>
<221> allele
<222> 432
<223> 99-15280-432 : polymorphic base C or T

```

```

<220>
<221> misc_binding
<222> 409..455
<223> 99-15280-432.probe

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```

<220>
<221> primer_bind
<222> 413..431
<223> 99-15280-432.mis

```

```

<220>
<221> primer_bind
<222> 433..451
<223> 99-15280-432.mis complement

```

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<220>
<221> primer_bind
<222> 1..18
<223> 99-15280.pu

```

```

<220>
<221> primer_bind
<222> 521..541
<223> 99-15280.rp complement

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<400> 56
atgtccatcc atcttgccca gagagagttt ctacaacact tcctctgcaa gccctttccc 60
tacttgcttc acctattgct ttcctctggt acgttggtatt cccctcactg tttcttccaa 120
catcttccca cctcagagca tggacacttg ctgctctttc tgtgtcatga tgctgctcac 180
ttgtcccttt cttaatgtct cctccctgag ccaatcttct ccacccccac aacttacgca 240
cacttacatg tcatattttc cttcatagcc tttaacaoca tttgaaatga tatatatattg 300
attgctttta aaattttctc gtccccccac taaatataaa cttcaggatg gcaagaatgt 360
agtccattat cttattttct cagcctccat acttttaaga aaataaattt tggttgata 420
agccatccag tyagtggtag ttggttatag cacccttagc aaaagaatac aaaaaagg 480
agaatgtttg caatcatctg tttgaggcta ggaattccca gagaggggaaa caaggagtaa 540
t 541

```

```

<210> 57
<211> 514
<212> DNA
<213> Homo sapiens

```

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<220>
<221> allele
<222> 428

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T09020-905/0960

<223> 99-15353-428 : polymorphic base C or T

 $\langle 220 \rangle$

<221> misc binding

<222> 405.451

<223> 99-15353-428.probe

<220>

<221> primer bind

<222> 409..427

<223> 99-15353-428.mis

<220>

<221> primer bind

 $\langle 222 \rangle$ 429...447

<223> 99-15353-428.mis complement

<220>

<221> primer bind

<222> 1..18

<223> 99-15353.pu

 $\langle 220 \rangle$

<221> primer bind

<222> 495..514

<223> 99-15353.rp complement

<400> 57

tgggaatgga	ggtagtagac	gatgaggtct	ccaccctctg	actttgcaga	gatgggcaag	60
gccaaagtgtt	ggaagggtct	aaacacacac	cggagtattc	tgtgagaacc	agtggatttc	120
agaggatggc	aatgacacca	cttgccctct	gcctcaggag	gataactgat	ggcctgtgtg	180
gggatgcact	ggagagcaag	agctgggttg	caggagagacc	agctggatga	ttttctttca	240
tttattttat	tcattcaaca	cacattcatt	tggggttcac	tctgtgccca	acactgggca	300
tttccaaata	gtccagatgg	cagtaagcat	ggttgtggca	gtaggaatgg	gaaggctggg	360
aggggtatga	gaggcattac	aaacgggaag	tgggagtggc	accccgagaa	agtctagttt	420
aaggtgcyag	tggatgtgtg	catgtgtgcg	cgggggtgtc	tagagggtgg	cgggcagctg	480
qaaattqaqq	tcaaqtqctt	aaaqaacaac	tcqt			514

<210> 58

<211> 489

<212> DNA

<213> Homo sapiens

 $\langle 220 \rangle$

<221> allele

<222> 150

<223> 99-15355-150 : polymorphic base C or T

<220>

<221> misc_binding

<222> 127..173

<223> 99-15355-150.probe

$\langle 220 \rangle$

<221> primer bind

<222> 131..149

<223> 99-15355-150.mis

<220>

<221> primer bind

<222> 151..169

<223> 99-15355-150.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15355.pu

<220>

<221> primer_bind

<222> 471..489

<223> 99-15355.rp complement

<400> 58

taacttctcc	gtctctcctt	cttagcccat	atgtcaataa	tgactgaaag	tattcatttc	60
catctttaaa	ctgcctatcc	cagccacctc	ccacctccat	ctctttcctt	ctaagttttc	120
ttcatcttct	actttgggca	aaaggaaaty	gatgtgtcag	acaggcctag	ttttgaattc	180
tggatctgct	agcactttct	tgtgtgtcct	tggttatatg	atatagtctt	aaaccttaat	240
gttcttgctt	gtaaaatggg	gataataaaa	acctcttaac	agtgggtggt	tcatgcagct	300
ttcattacaa	acttctctat	tcaaaatctt	caatgatttc	catttttcac	aaaatgaaat	360
tcaaaatttc	tgtagattat	tgagacaagt	cccctactct	tcacctaaat	ttatctttta	420
tttattctct	catcattatc	aacaactact	aggctttgtt	gccttgactc	cagaggcaaa	480
aatcttate						489

<210> 59

<211> 468

<212> DNA

<213> Homo sapiens

<220>

<221> allele

<222> 227

<223> 99-15685-227 : polymorphic base A or G

<220>

<221> misc_binding

<222> 204..250

<223> 99-15685-227.probe

<220>

<221> primer_bind

<222> 208..226

<223> 99-15685-227.mis

<220>

<221> primer_bind

<222> 228..246

<223> 99-15685-227.mis complement

<220>

<221> primer_bind

<222> 1..18

<223> 99-15685.pu

<220>

<221> primer_bind

<222> 449..468

<223> 99-15685.rp complement

<400> 59

aaacaaaggc	acgcagagga	taaggcatga	gtccaaccag	cagcatctcc	ctcccgaatg	60
agtacagaaa	tgatcaatac	togaagagaa	aaagatgctt	tcagtgtgct	ttacctgaaa	120

acttccttaa	gcagcttcac	tttattgtca	ggatatcgct	ttgtgtttgt	atcatctaag	180
aaagctcgcg	catatgctag	tgggccagca	ttgacctaga	caaagarcaa	agattttcag	240
ttccactagg	aagaaaatca	ccatgaccat	ctgctcagtt	tcagtttgca	ggcactaaaa	300
agcccgttcg	cgtgagctac	tcacaatccc	tgccttccag	gaacttaagc	ccaaaaagaa	360
accacaaagc	tcactctggt	gcacaccact	tgattccatg	atctcagcca	tcttcagggc	420
acttgtgatg	atggtttact	ttatgtaaga	agaaaccaat	gcttgga		468

<210> 60
 <211> 500
 <212> DNA
 <213> Homo sapiens

<220>
 <221> allele
 <222> 428
 <223> 99-15695-428 : polymorphic base C or T

<220>
 <221> misc_binding
 <222> 405..451
 <223> 99-15695-428.probe

<220>
 <221> primer_bind
 <222> 409..427
 <223> 99-15695-428.mis

<220>
 <221> primer_bind
 <222> 429..447
 <223> 99-15695-428.mis complement

<220>
 <221> primer_bind
 <222> 1..18
 <223> 99-15695.pu

<220>
 <221> primer_bind
 <222> 481..500
 <223> 99-15695.rp complement

<400> 60		
atcagccttt	gtgaggagga ggcctgcct gctctcctcc tgagctgatg ggtcagtcac 60	
accaggacaa	aggtctgccc ggggctgtgt ggggtcctcc ttctgagct gcacaccagc 120	
atctgctgaa	caacttcttg agctcagctc agtgtctcgt ccagagacac tgggtccctt 180	
ggcttctcag	caactctcgg atctgggctt ggggtctaacc tcagcgggtg tcttgcccat 240	
ttctagggcc	tcacaattca gctcatgtc ttcacctgtg gctcttttgc aaggctcaga 300	
aagctctagg	gtcagttcca gatgactccc accagcatgc cagtaggagc caccaccccc 360	
tctcagccag	cgccaccata ttccaggcaa attccaactg acacagactt caagggaacga 420	
ttgtagcygt	tgttcttgct tcttccaaat ggaagagtgc attattgggg tcccttctag 480	
cacgcatttc	attccccacc	500

<210> 61
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> allele
 <222> 310

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```
<220>
<221> primer_bind
<222> 1..21
<223> 99-15870.pu
```

```
<220>  
<221> primer_bind  
<222> 452..470  
<223> 99-15870.rp complement
```

<400> 62									
gctcaa	atgt	atcaa	caca	gtttct	gtgg	tcaagttcct	ctccttttct	aaatttgctt	60
agaggat	ctc	ataaaa	cgt	actcct	ctga	caaggggaacc	atttttagcac	caacactgca	120
aaagctt	ctg	tgttcct	taag	ggaaagat	cc	tttctctgaat	taaatttaac	ctcttttagta	180
ctcccatt	ta	gccacct	gat	aaatccact	t	gagctatctt	ttgggaagag	agaggatatct	240
gggaaca	ata	acactt	ctct	tttgaac	agt	ttaataaa	c	tttgtgagat	300
aagataat	gt	gtaatt	gtcga	tagtgc	ccct	caaggctctg	cattcatgga	tccaattacg	360
tttttt	gtca	tggtaaa	agc	cacagct	ggat	atatttaa	atr	agagtggtgg	420
aggccc	agga	gtctgg	agat	ctgggtt	tcta	aggctgactt	cacttctgct		470

```
<210> 63
<211> 469
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> allele
<222> 287
<223> 99-16321-287 : polymorphic base A or C
```

```
<220>
<221> misc_binding
<222> 264..310
<223> 99-16321-287.probe
```

```
<220>  
<221> primer_bind  
<222> 268..286  
<223> 99-16321-287.mis
```

```
<220>
<221> primer_bind
<222> 288..306
<223> 99-16321-287.mis complement
```

```
<220>
<221> primer_bind
<222> 1..20
<223> 99-16321.pu
```

```
<220>
<221> primer_bind
<222> 451..469
<223> 99-16321.rp complement
```

<400>	63						
cttttaggaat	atcccttctg	atttgaacaa	cattttgcta	tccaagttct	gtctactttt		60
ttaacaagtt	cttgctccgt	gtgtctcctt	ttgcttggtc	tcaagtaagg	gagtaacagg		120
gataaactcc	cactccttgg	taaatctttc	tatcattttt	ggaaatctca	tccattgtag		180
tgaatgctct	taaatcttca	tottcaggcc	gtgactttca	tctaqcctcc	attcacqttt		240

[illegible]

```
<220>  
<221> allele  
<222> 149  
<223> 99-5873-159 : polymorphic base C or T
```


<220>
 <221> misc_binding
 <222> 126..172
 <223> 99-5873-159.probe

<220>
 <221> primer_bind
 <222> 130..148
 <223> 99-5873-159.mis

<220>
 <221> primer_bind
 <222> 150..168
 <223> 99-5873-159.mis complement

<220>
 <221> primer_bind
 <222> 1..18
 <223> 99-5873.pu

<220>
 <221> primer_bind
 <222> 457..475
 <223> 99-5873.rp complement

<220>
 <221> misc_feature
 <222> 409
 <223> n=a, g, c or t

<400> 65
 gcgtaacaat aagcagggtt agtcgccaca aaacttgaga taagaggaaa actaaaaaag 60
 tctaataaaa tcagtagtct taaaaagatg acatgatagg aagagaagtg ttaaaaaaga 120
 aaaaaaatag gtatgaaaga gagtaacaya taccggaaaa gggataaaat acatcctttg 180
 aaagaacaaa gagttattca aattgaattc ttaatgaatt acttaaacag cagattagat 240
 attgttaaaa agaggaatag ggaattaaat gatatatgtg atgatattac ctagtgtaac 300
 catcaaagat gtattgcaaa tgataaagaa aaaaatgctg ccatggcaat attaatatca 360
 taaaaatata ctttaagaag taaataaatg caactaggaa tagagaaans dvhatgaata 420
 ataatatatta amaaavvgtg taacaagtat acataagatg taatatccta aaccg 475

<210> 66
 <211> 511
 <212> DNA
 <213> Homo sapiens

<220>
 <221> allele
 <222> 49
 <223> 99-5912-49 : polymorphic base A or G

<220>
 <221> misc_binding
 <222> 26..72
 <223> 99-5912-49.probe

<220>
 <221> primer_bind
 <222> 30..48
 <223> 99-5912-49.mis

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```
<220>
<221> primer_bind
<222> 50..68
<223> 99-5912-49.mis complement
```

```
<220>  
<221> primer_bind  
<222> 11..31  
<223> 99-5912.pu
```

```
<220>  
<221> primer_bind  
<222> 494..511  
<223> 99-5912.rp complement
```

<400>	66							
aaatataata	gtcaaatcat	gttaccatta	ggacacatta	aaaatgtcra	attaccttgg		60	
gaccttatat	gaacatat	agataataat	gatagtgttc	agtgcfaat	tcagatcaat		120	
agtttaaacc	caaaatattt	ataccttcag	attagatgta	tgcaaavgca	ttgattcatg		180	
tgtcttttat	ctgttgttta	catttggaga	aatatttgag	aatattttca	aatggaatt		240	
tatataaatt	taaacacata	atggttttat	gtaaaaatat	tgctaaatta	cattttcccc		300	
ttaattctta	tttcttgga	acgtgccta	gtcgctgaaa	tattcataca	ttaaacacaat		360	
gaaagaagtg	aacctacta	ggctttgact	atcaggtttg	ctgttggttt	ttgactattg		420	
tgaactata	gcctgatttc	taaatcagga	agaaacgtgt	attgttgтта	atatggacac		480	
atqacataat	tqtctqcctg	acttttgatc	c				511	

```
<210> 67
<211> 485
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> allele
<222> 210
<223> 99-6012-220 : polymorphic base G or T
```

```
<220>  
<221> misc_binding  
<222> 187..233  
<223> 99-6012-220.probe
```

```
<220>
<221> primer_bind
<222> 191..209
<223> 99-6012-220.mis
```

```
<220>
<221> primer_bind
<222> 211..229
<223> 99-6012-220.mis complement
```

```
<220>
<221> primer_bind
<222> 1..19
<223> 99-6012.pu
```

```
<220>
<221> primer_bind
<222> 467..485
<223> 99-6012.rp complement
```

```

<400> 67
gtcttgactt gttttcctga ggggccaggt tgatttgcatt gctcttgagg aaatatacac      60
gtcttctcag ttttaataat tgactgacag ccctgtgggt tctcaggacc cagtgcagctg      120
ctgctcccag gtcagtctgc aaaggatgct gggtcccttg tggctctcat aagggtgagga      180
atttctgat ttttagagatt tctttatcck aattttgaag actttctttc acatttctag      240
gcataaaaaa atgtacagca ctctactgct tgtttaacaa atggatagtg atatatacgc      300
caacaaagac cacatggagt atttcattga ctatcagaga agtttcctcg aaaggcacca      360
tacttagtgt tttatttcca tgagtgaagg aaaattagtt atttgaagta tttggctgtc      420
tttagttgtt tctaaagtag tgctgatttt atatgcccat aatattcata tatacaccca      480
ggata                                         485

```

```

<210> 68
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> allele
<222> 89
<223> 99-6080-99 : polymorphic base C or T

```

```

<220>
<221> misc_binding
<222> 66..112
<223> 99-6080-99.probe

```

```

<220>
<221> primer_bind
<222> 70..88
<223> 99-6080-99.mis

```

```

<220>
<221> primer_bind
<222> 90..108
<223> 99-6080-99.mis complement

```

```

<220>
<221> primer_bind
<222> 1..18
<223> 99-6080.pu

```

```

<220>
<221> primer_bind
<222> 509..529
<223> 99-6080.rp complement

```

```

<400> 68
aaatgtgtcc ctgaaaccca tgctatatcc aactgaatat tctaattgtct ttgattacaa      60
agccatctct agcaattttaa tacaattayg aaatggaaaa gttggcaaat gcaaaacaat      120
agctcgtggt caaggtatgt ctttattagg ggaagtttat cgaaacagat gtttatgcta      180
tttctataaa actagattct aaaatatatt attctataaa gatgtattga ctttatatga      240
aaaaattatt gaaaaatcta caagatgggt aaactcttta gaactatatt tctattacaa      300
gtttattttt aatttcaaaa atgtactgca taaatgcagc aaaaccttta ttgtcacata      360
ttaaacaatg tacattattg tgtgcaaat aaaatttcat taccttaaac caaaaagtga      420
gttggccaga tagtaaataa tttaggctct aaggctgaaa agcgcttgta ttaattactc      480
aactccacca ctattttgcc aaagcagtc cagacaatac gcattcaca                    529

```

```

<210> 69
<211> 489
<212> DNA
<213> Homo sapiens

```

T09090-90907090

<220>
 <221> allele
 <222> 156
 <223> 99-7308-157 : polymorphic base C or T

<220>
 <221> misc_binding
 <222> 133..179
 <223> 99-7308-157.probe

<220>
 <221> primer_bind
 <222> 137..155
 <223> 99-7308-157.mis

<220>
 <221> primer_bind
 <222> 157..175
 <223> 99-7308-157.mis complement

<220>
 <221> primer_bind
 <222> 1..18
 <223> 99-7308.pu

<220>
 <221> primer_bind
 <222> 469..489
 <223> 99-7308.rp complement

<400> 69
 tgtggtctgg atatggtgra ctgtccttca cacacagatg tgggaagcca tgatcatcag 60
 ttgcattatt cctgaggggc aatgcattcc agttacatag aaccagtttc tacgtttcag 120
 ggtatatgta ttcattggtga caaattttatt cacatyttaa gtaatttttaa gtaattcaca 180
 ttttaagtaa ttttcctgaa tgtgcctcat tggcttctgt gcctcttcag aaaagatgaa 240
 ctaaacactg gcatatgtgt tcagatttca acattccgtt gttttcattg tggataattt 300
 ctgtcccata tttttgtgta aagtttagaca ataaagtgtt aatattctgg cgtcggcaca 360
 ttttctttcc tgataaataa caattcacat atctttttta aatatcagag aatatagtaa 420
 ccaatttcca attctttttt caccatgtat ctattggagt tttaaaatga ctaatactaa 480
 ggcaactat 489

<210> 70
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> sequencing oligonucleotide PrimerPU

<400> 70
 tgtaaaacga cggccagt 18

<210> 71
 <211> 18
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> sequencing oligonucleotide PrimerRP

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PCT/IB99/01730

<400> 71
caggaaacag ctatgacc

18

T09030" 30520360